## Contents

Altamura, M. M., Capitani, F., Cerchia, R., Falasca, G., Bagni, N., Cytological events induced by the inhibition of polyamine biosynthesis in thin cell layers of tobacco	9	<ul> <li>Cytoskeletal dynamics of Apedinella radians (Pedinellophyceae). II. Cell division and maintenance of cell polarity and symmetry</li> <li>Cytoskeletal dynamics of Apedinella radians (Pedinellophyceae).</li> </ul>	. 29
Bagni, N., s. Altamura, M. M.Beilby, Mary J., Mimura, T., Shimmen, T., The proton pump,high pH channels, and excitation: voltage clamp studies of		phyceae). III. Post-division development, maintenance of cell symmetry, and the re-establishment of interphase morphology	
intact and perfused cells of <i>Nitellopsis obtusa</i> Berta, Graziella, Dela Pierre, M., Maffei, M., Nuclear mor-	144	Kuroiwa, T., s. Satoh, M.	
phology and DNA content in the glandular trichomes of peppermint ( <i>Mentha</i> × <i>piperita</i> L.)	85	Large, A. T., Jones, Carolyn J. P., Connock, M. J., The association of mannitol oxidase with a distinct organelle in the digestive gland of the terrestrial slug <i>Arion ater</i>	
		Lehnen, L. P. Jr., Powell, Martha J., Characterization of cell	
Capitani, F., s. Altamura, M. M. Cerchia, R., s. Altamura, M. M.		surface carbohydrates on asexual spores of the water mold Saprolegnia ferax	
Citterio, S., s. Sgorbati, S.		Maffei, M., s. Berta, Graziella	
Connock, M. J., s. Large, A. T.		Mimura, T., s. Beilby, Mary J.	
		Müller, D. G., Parodi, Elisa, Transfer of a marine DNA virus	
De Bellis, L., s. Nishimura, M.		from Ectocarpus to Feldmannia (Ectocarpales, Phaeophy-	
Dela Pierre, M., s. Berta, Graziella  – s. Sgorbati, S.		ceae): aberrant symptoms and restitution of the host	
De la Torre, C., s. González-Fernández, Aurora		Nagata, T., s. Satoh, M.	
Derksen, J., s. Wolters-Arts, A. M. C.		Navarrete, Matilde H., s. González-Fernández, Aurora Nemoto, Y., s. Satoh, M.	
Falasca, G., s. Altamura, M. M.		Nishimura, M., Takeuchi, Y., De Bellis, L., Hara-Nishimura, I.,	
Frixione, E., s. García-Sierra, F.		Leaf peroxisomes are directly transformed to glyoxysomes during senescence of pumpkin cotyledons	
García-Sierra, F., Frixione, E., Lidocaine, a local anesthetic,			
reversibly inhibits cytoplasmic streaming in Vallisneria meso- phyll cells	153	O'Driscoll, D., Hann, C., Read, S. M., Steer, M. W., Endocytotic uptake of fluorescent dextrans by pollen tubes grown in vitro	
Gianinazzi-Pearson, V., s. Sgorbati, S.		D P FF A MER D C	
González-Fernández, Aurora, Navarrete, Matilde H., De la		Parodi, Elisa, s. Müller, D. G.	
Torre, C., Role for early replicating DNA in preventing pre-	* 20	Powell, Martha J., s. Lehnen, L. P. Jr.	
cocious nucleologenesis in proliferating plant cells	138	Raghavan, V., Chloroplast activities of dark-imbibed and pho- toinduced spores of the fern <i>Onoclea sensibilis</i>	75
Hann, C., s. O'Driscoll, D.		Read, S. M., s. O'Driscoll, D.	15
Hara-Nishimura, I., s. Nishimura, M. Heath, I. B., s. Jackson, Sandra L.		Renzaglia, Karen S., s. Vaughn, K. C.	
Hirokawa, H., s. Satoh, M.		Satoh, M., Nemoto, Y., Kawano, S., Nagata, T., Hirokawa, H., Kuroiwa, T., Organization of heterogeneous mitochondrial	
Jackson, Sandra L., Heath, I. B., UV microirradiation implicates		DNA molecules in mitochondrial nuclei of cultured tobacco	
F-actin in reinforcing growing hyphal tips	67	cells	112
		Schellenbaum, L., s. Sgorbati, S.	
Kawano, S., s. Satoh, M.		Sgorbati, S., Berta, G., Trotta, A., Schellenbaum, L., Citterio,	
Koutoulis, A., Wetherbee, R., Cytoskeletal dynamics of Ape- dinella radians (Pedinellophyceae). I. Pre-division develop-		S., Dela Pierre, M., Gianinazzi-Pearson, V., Scannerini, S., Chromatin structure variation in successful and unsuccessful	
ment and the formation of spine-scales and body scales .	17	arbuscular mycorrhizas of pea	1

Sherman, T. D., s. Vaughn, K. C. Shimmen, T., s. Beilby, Mary J. Steer, M. W., s. O'Driscoll, D.	Wetherbee, R., s. Koutoulis, A. Wolters-Arts, A. M. C., van Amstel, T., Derksen, J., Tracing cellulose microfibril orientation in inner primary cell walls	
Takeuchi, Y., s. Nishimura, M. Trotta, A., s. Sgorbati, S.		
van Amstel, T., s. Wolters-Arts, A. M. C.		

Vaughn, K. C., Sherman, T. D., Renzaglia, Karen S., A centrin homologue is a component of the multilayered structure in

## Rapid Communication

Kuroiwa, T., Suzuki, K., Kuroiwa, H., Mitochondrial division by an electron-dense ring in *Cyanidioschyzon merolae* . . 173

